

API NO. 45 - 051 - 21423
 WELL NAME: H. G. Wampler, PC 136
 DATE November 19, 1990

Virginia Oil and Gas Inspector
 P. O. Box 1416
 Abingdon, VA 24210
 703 628-8115

DD-487

REPORT OF COMPLETION OF WELL WORK

Pursuant to Regulation 4.06 of the Regulations under the Virginia Oil and Gas Act, the undersigned well operator reports completion of the type(s) of well work specified below on the referenced well in Ervington District Dickenson County, Virginia on 21 day, August month, 1990.

WELL TYPE: Oil ___/ Gas X/ Enhanced Recovery ___/ Waste Disposal ___
 If Gas-Production X/ Underground Storage ___/ Exempt by Code Section 45.1-300.B.1. from general Oil and Gas Conservation Law yes X/ no ___
 WELL WORK: Drill X/ Deepen ___/ Redrill ___/ Stimulate X/ Plug Off Old Formation ___/ Perforate New Formation X/ Plug ___/ Replug ___/ Other physical change in well (specify) _____
 The well work was done as shown in the Appendix(es) applicable to the type(s) of well work involved.

CONFIDENTIALITY STATUS UNDER CODE OF VIRGINIA SECTION 45.1-332

X Ninety days from the filing of this report

OR

Two years from _____, the date on which the referenced well was completed, the well being an exploratory well as defined in Code of Virginia, Section 45.1-288.21.

APPLICANT Equitable Resources Exploration

BY J. Matthew Conrad

ITS Geologist

ADDRESS 1989 East Stone Drive, Kingsport, TN 37660

TELEPHONE (615) 378-5101



COMPLETION REPORT

WELL TYPE: Oil () Gas Production (x) Gas-Underground Storage ()
 Enhanced Recovery () Waste Disposal ()

LOCATION

COUNTY Dickenson DISTRICT Ervinton

SURFACE ELEVATION 2723.11' QUADRANGLE Duty

LATITUDE 1,820 'S 37° 02 ' 30 " LONGITUDE 10,900 'W 82° 12 ' 30 "

DRILLING DATA

DATE DRILLING COMMENCED 8-3-90 DRILLING CONTRACTOR Union Drilling
 DATE DRILLING COMPLETED 8-8-90 ADDRESS Drawer 40, Buckhannon, WV 26201
 DATE WELL COMPLETED 8-21-90 TELEPHONE NUMBER (304) 472-4610
 TOTAL DEPTH OF COMPLETED WELL 2973' RIG TYPE X ROTARY CABLE TOOL

GEOLOGICAL DATA

FRESH WATER AT (1) 80 FEET 1" Str. XXXX GPM: (2) FEET GPM
 SALT WATER AT (1) FEET GPM: (2) FEET GPM

COAL SEAMS:

NAME	TOP	BOTTOM	THICKNESS	YES	MINING IN AREA		
					(NO)	MINED	OUT
Poco #5	2612	2613	1	Beckley	2202	2204	2
Poco #6	2566	2568	2	Warcreek	2128	2130	2
X-Seam	2303	2305	2	C-Seam	2090	2091	1
L. Horsepen	2250	2251	1	U. Horsepen	1955	1956	1

OIL AND GAS SHOWS:

FORMATION	TOP	BOTTOM	THICKNESS	IPF(MCFD/BOPD)	PRESSURE	HOURS TESTED
NONE RECORDED						

STIMULATION RECORD

Poco #5, Poco #6, X-Seam, L. Horsepen, Beckley
 ZONE (1) Warcreek, C-Seam, M. Horsepen FORMATION STIMULATED WITH 75Q L/E foam frac
 using 672 bbls. fluid, 1,000,000 Scf N₂, 15,900 # 12/20 sand.
 PERFORATED 1956 TO 2613 NO. OF PERFORATIONS 15 PERFORATION SIZE .34
 FORMATION BROKE DOWN AT 2070 PSIG AVERAGE INJECTED RATE 13 BPM
 INITIAL SHUT IN PRESSURE 1590 PSIG 5 MINUTE SHUT IN PRESSURE 1390 PSIG

STIMULATION RECORD

ZONE (2) FORMATION STIMULATED WITH

PERFORATED TO NO. OF PERFORATIONS, PERFORATION SIZE
 FORMATION BROKE DOWN AT PSIG AVERAGE INJECTED RATE BPM
 INITIAL SHUT IN PRESSURE PSIG MINUTE SHUT IN PRESSURE PSIG
 FINAL PRODUCTION: () NATURAL (x) AFTER STIMULATION
 BOD MCFD HOURS TESTED ROCK PRESSURE HOURS TESTED

ZONE (1)
 ZONE (2)
 FINAL PRODUCTION IF GAS ZONES ARE COMINGLED * 37 MCFD 6 HOURS TESTED
 PSIG HOURS TESTED

* This is not an absolute open flow.

CASING AND TUBING

	<u>SIZE</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>LENGTH</u>	<u>PACKERS OR BRIDGE PLUGS</u>	
					<u>PERFORATIONS FEET TO FEET</u>	<u>KIND SIZE SET AT</u>
<u>CONDUCTOR</u>	11 3/4"		36'			

CASING

Circulated
and Cemented
to Surface

WATER PROTECTION

(Casing Set
According to
Section
45.1-334)

8 5/8" 703'

COAL PROTECTION

(Casing Set
According to
Section
45.1-334)

OTHER CASING &

Tubing Left 4 1/2" 2788'
In Well 2 3/8" 2688'

LINERS

Remaining
In Well

OTHER used and not
left

Is the well underlain by Red Shale Yes ___ No, If Yes, was coal
protection string set to Red Shales? Yes ___ No

REMARKS: Shut down, fishing jobs, depths and dates, caving, etc.

Samples and Cuttings

Will Will not be available for examination by a member of the Virginia Division of Mineral Resources

Will Will not be furnished to the Virginia Division of Mineral Resources upon request

Will Will not require sacks to be furnished by the Virginia Division of Mineral Resources

Electric Logs and Surveys:

Type of Electric Log(s) Ran: CDL/TEMP/GR

Did log disclose vertical location of a coal seam? Yes No

Was log made at request of a coal owner according to Section 45.1-333.B.1 of the Virginia Code? Yes No

Note: If a coal seam was located, the part of the survey from the surface through the coal is attached in accordance with Section 45.1-333.B.3 of the Virginia Code

Deviation Surveys

Deviation surveys were were not required under Section 45.1-333.C of the Virginia Code "to the bottom of the lowers published coal seam depth."

Note: If a deviation survey(s) was/were required, the survey results are as follows:

<u>Depth of Survey</u>	<u>Feet/Degree Deviated From True Vertical</u>	<u>Depth of Survey</u>	<u>Feet/Degree Deviated From True Vertical</u>
	<u>See Attachment</u>		

A continuous survey was was not required, under Section 45.1-333.C of the Virginia Code.

Note: If a continuous survey was required, the survey results are attached
Changes in the Permitted Well Work:

The well operator did did not make any change(s) in the permitted well work, verbally approved by the Inspector or Assistant Inspector under Regulation 4.03 of the Regulations under the Virginia Oil and Gas Act, for the purpose of insuring successful completion of the well work.

NOTE: The nature and purpose of each such change, if any, is set out below or on additional sheets if such are required.

Confidentiality Status:

Confidentiality status under Section 45.1-332, of the Virginia Code:

The operator requests that information herein and log(s) be kept confidential (after COMPLETION DATE of the well) for a period of

Ninety (90) days
 two (2) years, if the well is exploratory

DRILLER'S LOG

Compiled by

J. Matthew Conrad

Geological Age	Formation	General Lithology	Color	Depth		Thickness	Remarks	
				Top	Bottom			
Pennsylvania	Lee	Sand, Shale, Thin Coals		0	1305	1305		
		Jawbone Coal		1305	1308	3		
		Sand, Shale, Thin Coals		1308	1520	212		
		U. Seaboard "A" Coal		1520	1524	4		
		Sand, Shale, Thin Coals		1524	2137	613		
		Warcreek Coal		2137	2139	2		
		Sand, Shale, Thin Coals		2139	2202	63		
		Beckley		2202	2204	2		
		Sand, Shale, Thin Coals		2204	2303	99		
		X-Seam Coal		2303	2305	2		
		Sand, Shale, Thin Coals		2305	2566	261		
		Pocahontas	Poco #6 Coal		2566	2568	2	
			Sand, Shale, Thin Coals		2568	2970	402	
		Mississippian	Bluestone	Red Rock		2970	2973	3
Logger's TD					2973'			

Directional Survey
PC 136

<u>Depth</u>	<u>Degrees</u>
200'	3/4°
411'	3/4°
595'	3/4°
753'	1/2°
950'	1/2°
1190'	1/2°
1405'	1/2°
1595'	3/4°
1809'	3/4°
2089'	3/4°
2305'	3/4°
2502'	3/4°
2738'	3/4°
2975'	3/4°

Latitude 37° 02' 30"

1820'

Longitude 82° 12' 30"

Tr. # T-45, Ls. # PO-148
H. G. Wampler Tr.
1868.0 Ac.
Clinchfield Coal Co./
Pegasus Resources Co.-Coal & Surface
Pine Mountain Oil & Gas Co.-Oil & Gas

Tr. # T2-178,
Ls. # PO-1042
Tony Kiser Tr.
21.0 Ac.
Clinchfield Coal Co./
Pegasus Resources Co.-Coal & Surface
Pine Mountain Oil & Gas Co.-Oil & Gas

Tr.# T2-135,
Ls. # PO-1042
G.B. Lambert Tr.
106.55 Ac.
Clinchfield Coal Co./
Pegasus Resources
Co.-Coal & Surface
Pine Mountain Oil &
Gas Co.-Oil & Gas

Well Loc.
PC-136

S 49°02'52" E
152.02'

S 70°33'33" E
160.69'

Well Coordinates:
S-23060.58
E-40151.93

Tr. # T-194, Ls. # PO-148
W. R. Wampler Tr.
77.14 Ac.
Clinchfield Coal Co./
Pegasus Resources Co.-Coal & Surface
Pine Mountain Oil & Gas Co.-Oil & Gas

Ls. # 63950
Lambert Heirs Tr.
420.39 Ac.
Surface &
Mineral

Tr. # T-72,
Ls. # PO-148
W. & R. L. Keel Tr.
31.95 Ac.
Clinchfield Coal Co./
Pegasus Resources Co.-Coal & Surface
Pine Mountain Oil & Gas Co.-Oil & Gas

LEGEND
○ - Proposed Gas Well
—○— Mineral Line

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COMPANY Equitable Resources Exploration

ADDRESS 1989 E. Stone Dr., Kingsport, TN 37660

WELL NAME PC-136

FARM H. G. Wampler TRACT T-45/

LEASE NO. PO-148 ELEVATION 2723.11

ACRES 1868.0 QUADRANGLE Duty

COUNTY Dickenson DISTRICT Ervinton

REG. ENGINEER X REG. NO. 6992

CERT. LAND SURVEYOR _____ CERT. NO. _____

FILE NO. _____ DRAWING NO. 1976

DATE 4-25-90 SCALE 1" = 400'

This plat is X new _____ updated

This plat X is _____ is not based on a mine coordinate system established for the areas of the well location.

FORM 5

WELL LOCATION MAP

WELL NO. PC-136

+ Denotes location of well on United States Topographic Maps, scale 1" to 24,000', latitude and longitude lines being represented by border lines as shown.

H. L. BALDRIDGE
CERTIFICATION OF WELL PLAT

I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief, and shows all the information required by law and the regulations of the Va. Well Review Board.

H. L. Baldridge
Registered Engineer or Certified Land Surveyor in Charge

